

Strategic Investments

At Los Alamos, we make continual investments in fundamental science and innovative technologies as well as in development of our research staff. Those investments are strategic because they provide the intellectual foundations for our national security missions, present and future.

The images on the facing page represent a sampling of projects in fundamental science and advanced technologies.

(Top row, left to right): Studies of the solar neutrino puzzle with the SNO neutrino detector; simulations of regional watersheds to aid water management; simulations of epidemics to aid first responders; and research on materials using ultra-high magnetic fields from the country's largest electric generator.

(Middle row, left to right): Development of the PEM fuel cell for energy sustainability; development of the HIV DNA database, a mainstay in the fight against AIDS; studies of HIV dynamics in the human body; and simulations of the insertion and folding of a protein into membranes.

(Bottom row, left to right): Investigation of the magnetic fields observed in astrophysical radio jets; high-resolution modeling of the ocean circulation; three-dimensional simulations of supernova dynamics; and development of tunable lasers from nanocrystal quantum dots.

